AMENDMENT

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 - 21 (Cancelled)

22. (Currently Amended) A computer-implemented method for the synthesis of photorealistic animation of an object, the method comprising:

creating a first database of image samples showing an object in a plurality of appearances:

creating a second database of the visual features for each image sample of the object; and

creating a third database of the non-visual features of the object in each image sample;

obtaining, for each frame in a plurality of N frames of an object animation, a target feature vector comprising visual features and non-visual features associated with the object animation; [[and]]

selecting via a processor candidate image samples from the first database utilizing the target feature vector to generate a photo-realistic animation of the object;

calculating, for each pair of candidates of two consecutive frames, a concatenation cost from a combination of visual features from the second database and object characteristics from the third database; and

performing a Viterbi search to find the least expensive path through the candidates accumulating a target cost and concatenation costs, wherein generating the

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photo-realistic animation of the object occurs using an audio/video unit selection process in which a longest possible candidate image sample is selected.

23. (Currently Amended) A computer-implemented method for the synthesis of photorealistic animation of an object, the method comprising:

creating a first database of image samples showing an object in a plurality
of appearances;

creating a second database of the visual features for each image sample of the object; and

creating a third database of the non-visual features of the object in each image sample;

obtaining, for each frame in a plurality of N frames of an object animation, a target feature vector comprising visual features and non-visual features associated with the object animation; [[and]]

selecting via a processor candidate image samples from the first database utilizing the target feature vector to generate a photo-realistic animation of the object;

calculating, for each pair of candidates of two consecutive frames, a

concatenation cost from a combination of visual features from the second database and
object characteristics from the third database; and

performing a Viterbi search to find the least expensive path through the candidates accumulating a target cost and concatenation costs, wherein generating the photo-realistic animation of the object occurs using an audio/video unit selection process in which a longest possible candidate image sample is selected.

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24. (Previously Presented) The method of claim 22, wherein selecting candidate image

samples further comprises for each frame in the plurality of N frames of the animation.

selecting candidate image samples associated with the object animation using a

comparison of a combination of visual features and non-visual features with the target

feature vector.

25. (Previously Presented) The method of claim 24, further comprising compiling the

selected image sample candidates to form a photo-realistic animation.

26. (Cancelled)

27. (Cancelled)

28. (Cancelled)

29. (Currently Amended) The method of claim [[27]] 22, wherein the animation is a

talking-head animation, the first database stores sample images of a face that speaks, the

second database stores associated facial visual features and the third database stores

acoustic information for each frame in the form of phonemes.

30. (Currently Amended) A computer-implemented animation of an object generated

according to a process of:

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creating a first database of image samples showing an object in a plurality
of appearances:

creating a second database of the visual features for each image sample of the object; and

creating a third database of the non-visual features of the object in each image sample;

obtaining, for each frame in a plurality of N frames of an object animation, a target feature vector comprising visual features and non-visual features associated with the object animation; [[and]]

selecting via a processor candidate image samples from the first database utilizing the target feature vector to generate a photo-realistic animation of the object;

calculating, for each pair of candidates of two consecutive frames, a

concatenation cost from a combination of visual features from the second database and
object characteristics from the third database; and

performing a Viterbi search to find the least expensive path through the candidates accumulating a target cost and concatenation costs, wherein generating the photo-realistic animation of the object occurs using an audio/video unit selection process in which a longest possible candidate image sample is selected.

31. (Previously Presented) The animation of claim 30, wherein the step of selecting candidate image samples further comprises for each frame in the plurality of N frames of the animation, selecting candidate image samples associated with the object animation using a comparison of a combination of visual features and non-visual features with the target feature vector.

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32. (Previously Presented) The animation of claim 31, wherein the animation is

generated according to the additional step of compiling the selected image sample

candidates to form a photo-realistic animation.

33. (Cancelled)

34. (Cancelled)

35. (Cancelled)